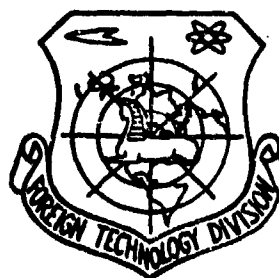


FOREIGN TECHNOLOGY DIVISION



INTRODUCTION TO CHINA'S AERONAUTICAL ENGINEERING INSTITUTIONS  
OF HIGHER LEARNING -- STUDENT ENROLLMENT IN 1981 IN HIGHER  
AERONAUTICAL COLLEGES AND SCHOOLS ADMINISTERED BY THE  
THIRD MINISTRY OF MACHINE BUILDING



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INTRODUCTION TO CHINA'S AERONAUTICAL ENGINEERING INSTITUTIONS OF HIGHER LEARNING --  
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Education Bureau, Third Ministry of Machine Building

Among the higher aeronautical colleges and schools under the Third Ministry of Machine Building, there are three key national institutions of higher learning: Beijing Aeronautical Engineering College, Northwest Industrial University and Nanjing Aeronautical Engineering College. In addition, there are three general schools of higher learning: Shenyang Aircraft Industry College, Nanchang Aircraft Industry College and Zhengzhou Professional School of Aircraft Industry Management. In 1981, these six schools will take part in the national unified student enrollment in 25 provinces, municipalities and autonomous regions. The aircraft industry higher colleges and schools are polytechnic, majoring in aviation industry occupations; these schools help students to advance in moral, intellectual and physical culture in training superior engineering, technology and science personnel. After graduation, the former students are assigned to aircraft industry centers for scientific research, design and production as well as higher institutes for scientific research, engineering technology or teaching positions.

In order to meet the requests and expectations of general readers and students applying to enroll in aircraft colleges and schools, the article will briefly introduce specialties, curricula and training goals of aircraft industry colleges

and schools which accept student applications for enrollment in 1981. In addition, numbers of students to be enrolled are listed by provinces, municipalities and autonomous regions.

#### **BEIJING AERONAUTICAL ENGINEERING COLLEGE (SITE: BEIJING MUNICIPALITY)**

The Beijing Aeronautical Engineering College was the first combined aeronautical engineering and scientific research college established after Liberation. The college is growing into a university as a center of teaching as well as of science and technology. In the engineering college, there are eight departments and two divisions of fundamental courses, divided into 12 curriculum categories and 30 specialties. In addition, there are four research laboratories, six applied research sections, an electronic computer station, and 45 experimental laboratories. There are 39 professors, 166 associate professors and 1175 lecturers.

In 1981, the Beijing Aeronautical Engineering College will enroll students from 25 provinces, municipalities and autonomous regions - 850 students (four-year curriculum) and 170 graduate students for doctoral and master degrees. The following specialties are open for student enrollment this year:

1. Flight Vehicle Category - Aircraft Design Specialty, Winged Guided Missile Design Specialty and High Altitude Aircraft Equipment Specialty.
2. Jet Propulsion Category - Aircraft Turbo-engine Specialty and Rocket Engine Specialty.
3. Category of Aircraft Machine Building Engineering - Aircraft Machine Building Engineering Specialty, Aircraft Production Automatic Control Specialty, Aircraft Manufacture Engineering Specialty, Plastic Forming Engineering Specialty, and Aircraft Welding Engineering Specialty.
4. Category of Materials Science and Materials Engineering - Aircraft Metal Materials Science and Engineering Specialty, Polymer Composite Materials and Engineering Specialty, and Specialty of Aircraft Metal Corrosion Science and Protection Engineering.
5. Category of Aircraft Automatic Control - Flight Vehicle Automatic Control Specialty, Aircraft Gyroscope and Inertial Guidance Specialty, and Aircraft

Electrical Engineering Specialty.

6. Category of Hydraulic Control Engineering - Hydraulic Control and Maneuvering Control Specialty.

7. Category of Computer Science and Engineering - Electronic Computer Specialty and Computer Software Specialty.

8. Category of Aircraft Radio Engineering - Radio Remote Control and Remote Sounding Specialty, Radar and Guidance Specialty, and Specialty of Microwave Techniques and Antennas.

9. Category of Aeronautical Engineering Mechanics - Flight Mechanics Specialty, Aerodynamics Specialty, and Aeronautical Solid Materials Mechanics Specialty.

#### NORTHWEST INDUSTRIAL UNIVERSITY (SITE: XI'AN MUNICIPALITY)

The Northwest Industrial University is a polytechnic university of science and technology, majoring in aeronautical engineering; the university is gradually developing into a center of teaching and scientific research. The industrial university has eight departments and a division of fundamental courses with 33 specialties. Already organized or in planning are 12 research laboratories, a computer station, and 49 experimental laboratories in the university. There are 37 professors, 135 associate professors, and 855 lecturers.

In 1981, the Northwest Industrial University will enroll students from 21 provinces, municipalities and autonomous regions - 780 students (four-year curriculum) and 130 graduate students for doctoral and master's degrees. There are the following specialties open for student enrollment this year:

1. Department of Aircraft - Aircraft Design Specialty, Aerodynamics Specialty, and Aircraft Structure and Mechanics Specialty.

2. Department of Aircraft Engine - Aircraft Engine Specialty.

3. Department of Space Flight Engineering - Rocket Engine Specialty, and Flight Vehicle Automatic Control (Guided Missile) Specialty.

4. Department of Ship Equipment - Specialty of Nontriggering Mine and Torpedo Automatic Control.

5. Department of Avionics Engineering - Electronic Computer Category, Computer Software Specialty, Radar Specialty, Aircraft Radio Technology Specialty, and Aircraft Fire Power Control Specialty.

6. Department of Aircraft Automatic Control - Specialty of Aircraft Gyroscope and Inertial Guidance, Specialty of Flight Vehicle (Aircraft) Automatic Control, and Specialty of Aircraft Electrical Engineering.

7. Department of Flight Vehicle Manufacture Engineering - Specialty of Aircraft Manufacture Engineering, and Specialty of Aircraft Machine Manufacture Engineering.

8. Department of Materials Science and Engineering - Specialty of Metal Materials and Heat Treatment Engineering, Specialty of Nonmetal Materials Science and Engineering, Specialty of Forge Compression Engineering, Casting Engineering Specialty, and Welding Engineering Specialty.

9. Division of Fundamental Courses - Applied Mathematics Specialty and General Mechanics Specialty.

#### NANJING AERONAUTICAL ENGINEERING COLLEGE (SITE: NANJING MUNICIPALITY)

The Nanjing Aeronautical Engineering College is a school of aeronautical engineering and scientific research; the college is gradually developing into a center of teaching and scientific research. There are six departments and one division of fundamental courses with 17 specialties. In addition, there are five research laboratories and more than 40 experimental laboratories. The college has 19 professors, 36 associate professors, and 675 lecturers.

In 1981 the Nanjing College of Aeronautical Engineering catered to 21 provinces, cities and autonomous regions throughout the country and enrolled 600 undergraduate students (4 year education sytem) and trained 100 research students at the Master and Doctorate degree level.

The specialities of the enrolled students were:

1. Department of Aircraft - Helicopter Design Specialty and Specialty of Aircraft High Altitude Equipment.

2. Department of Aircraft Engines - Specialty of Aircraft Turboengines, and Specialty of Aircraft Power Installation Control Engineering.

3. Department of Aircraft Automatic Control - Specialty of Flight Vehicle Automatic Control, Specialty of Aircraft Gyroscope and Inertial Guidance, Specialty of Aircraft Instruments, Meters and Transmitters, and Specialty of Aircraft Electrical Engineering.

4. Department of Aircraft Radio - Electronic Computer Specialty, Specialty of Radar and Electronic Jamming, and Specialty of Aircraft Radio Communications.

5. Department of Aircraft Manufacture Engineering - Specialty of Machine Manufacture Systems Engineering, Specialty of Machine Automatic Control Engineering, and Specialty of Aircraft Manufacture Engineering.

6. Department of Aerodynamics - Aerodynamics Specialty.

**SHENYANG AIRCRAFT INDUSTRY COLLEGE (SITE: SHENYANG MUNICIPALITY)**

The Shenyang Aircraft Industry College is a school for training high-level engineering, technical personnel for the aircraft industry with a four-year curriculum. There are three departments, six specialties and 25 experimental laboratories. The college is well known for a specialty of cold working techniques, which is widely adaptable and in demand by organizations engaging in production and scientific research. In the college, there are 1500 teachers, support staff and workers as well as 1000 students.

In 1981, the Shenyang Aircraft Industry College will enroll 300 students from 13 provinces, municipalities and autonomous regions. The following departments are open for student enrollment:

1. Department of Aeronautical Engineering - Aircraft Engine Specialty, and Aircraft Manufacture Specialty.

2. Department of Mechanical Engineering - Specialty of Aircraft Machining Techniques, and Specialty of Designing and Manufacturing Aircraft Machines.

3. Department of Electronic Engineering - Specialty of Techniques and Applications of Electronic Computers.



## NANCHANG AIRCRAFT INDUSTRY COLLEGE (SITE: NANCHANG MUNICIPALITY)

The Nanchang Aircraft Industry College is a school for training high-level engineering, technical personnel for the aircraft industry with a four-year curriculum. There are four departments, seven specialties, and 30 experimental laboratories. The college is well known for its specialty of aircraft heat treatment techniques, which is demanded by organizations engaging in production and scientific research. In the school, there are 1500 teachers, support staff, and workers as well as more than 1200 students.

In 1981, the Nanchang Aircraft Industry College will enroll 150 students from 12 provinces, municipalities and autonomous regions. The following departments are open for student enrollment:

1. Department of Aircraft Heat Treatment - Aircraft Casting Specialty, and the Specialty of Aircraft Metal Materials and Heat Treatment.
2. Department of Aircraft Chemical Engineering - Specialty of Aircraft Materials and Protection.
3. Department of Aircraft Machines - Specialty of Aircraft Machining.
4. Department of Aircraft Radio - Specialty of Electronic Instruments and Probe Techniques.

## ZHENGZHOU PROFESSIONAL SCHOOL OF AIRCRAFT INDUSTRY MANAGEMENT (SITE: ZHENGZHOU MUNICIPALITY)

The Zhengzhou Professional School of Aircraft Industry Management is a school for training management, engineering and technical personnel in the aircraft industry with a three-year curriculum.

In the school, there are four departments and four specialties. At the present time, the aircraft industry management level should be quickly upgraded; this demand shows the importance of training aircraft industry personnel. In the professional school, there are now more than 1000 teachers, support staff, and workers as well as nearly 1000 students.

In 1981, the Zhengzhou Professional School will enroll 200 students from 12 provinces and municipalities. The following departments are open for student enrollment:

1. Department of Finance Management - Specialty of Industrial Finance Accounting.
2. Department of Organization Management - Planned Management Specialty.
3. Department of Materials Management - Materials Management Specialty.
4. Department of Technical File Management - Specialty of Technical File Management.

(Diagrams in the article were drawn by Wang Xiuchang.)

APPENDIX

[See Next Page.]

1981 Plan of the Number of Students to be Enrolled in Regular Classes  
of Aeronautical Engineering Colleges and Schools Administered by the  
Third Ministry of Machine Building

School Name	Locality												
	Sub- total	Si- chuan	Gui- zhou	Yun- nan	Sha- anxi	Gan- su	He- nan	Hu- bei	Guang- xi	Guang- dong	Shang- hai	Jiang- su	Zhe- jiang
(1)	2880	195	155	10	360	35	135	160	10	25	65	180	95
(2)	850	50	30	10	25	10	25	45	10	15	25	30	30
(3)	780	65	30		280	25	20	30			20	30	25
(4)	600	30	30		20		20	40		10	20	100	35
(5)	300	20	20				20	20					
(6)	150	10	20		10		10	10				10	5
(7)	200	20	25		25		40	15				10	

An- hui	Fu- jian	Jiang- xi	Shan- dong	Bei- jing	Tian- jin
90	85	180	115	195	40
30	30	50	30	140	20
25	20	30	20	20	10
35	35	40	40	15	15
		10	25	5	
		40		5	
		10		10	

School Name	Locality						
	Hunan	Hebei	Shanxi	Nei Monggol	Liao- ning	Jilin	Heilong- jiang
(1)	150	95	65	35	195	80	130
(2)	50	30	30	15	50	30	40
(3)	30	20	20		25	15	20
(4)	35	15	15		20	15	20
(5)	10	20		20	80	20	30
(6)	10				10		10
(7)	15	10			10		10

Key: (1) Total Enrollment of Students to be Admitted by Higher Schools Administered by the Third Ministry of Machine Building;  
 (2) Beijing Aeronautical Engineering College;  
 (3) Northwest Industrial University;  
 (4) Nanjing Aeronautical Engineering College;  
 (5) Shenyang Aircraft Industry College;  
 (6) Nanchang Aircraft Industry College;  
 (7) Zhengzhou Professional School of Aircraft Industry Management.